

METHOD AND APPARATUS FOR THE CONTINUOUS GRAVIMETRIC METERING OF FLOWING MATERIALS FOR BURNER SYSTEMS

ABSTRACT

A method for the continuous gravimetric metering of flowing materials for burner systems, in which the instantaneous mass flow is determined and metering occurs by means of a metering unit can be achieved by means of determination of the type of flowing material. The instantaneous heat output for the flowing material is determined from the type of flowing material and the heat capacity thereof and the mass flow determination. The output from the metering device is regulated to match the set feed rate, depending on the instantaneous heat output. In addition, a device for the continuous gravimetric metering of flowing materials for burner systems comprises a metering unit by means of which the flowing material can be metered. Also provided is a material recognition system for determining the type of the flowing material, an arithmetic unit for determining the instantaneous heat output of the flowing material and a metering controller by means of which the output from the metering unit is regulated to match the set feed rate, depending on the instantaneous heat output.

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